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InterComputer Adaptor at	InterComputer Adaptor at		Workflow Engine	Messaging Server	Certification Server	:	InterBIPS Adaptor at the B	InterBIPS Adaptor at the S	InterBIPS Payment System		Buyer System (B/S)				Messaging Server	UVX Adaptor at Buyer	UVX Adaptor at Seller	3uye	apto	apto	apto	'									
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### 1 Introduction

# 1.1 Organization of this Document

This document consists of 13 major sections and can be navigated using the links in the Table of Contents.

- 1. <u>Introduction</u> summarizes the overall purpose and structure of the functional specification document
- Methodology provides the methodology followed in developing these functional specifications.
- 3. <u>Architecture Components Diagram</u> identifies and defines the major components of the system
- Systems Identified identifies and defines systems and their components
- Business Use Cases use cases for the system and actors identified
- Business Data Objects lists all the business data objects identified through the use cases 9
- 7. Interaction Diagrams collaboration diagrams
- Class Diagrams class diagrams based on the collaboration diagrams developed
- ). State and Activity Diagrams state and activity diagrams
- 10. System Requirements system requirements identified for the prototype and for the "ideal" system
- 11. Assumptions summary of assumptions identified in the use cases
- 12. Terminology terminology definitions
- 13. Appendixes clarifications from FSTC

### 1.2 Purpose

The purpose of this document is to provide the reader the system requirements and specifications for the proposed Intercomputer Demo System.

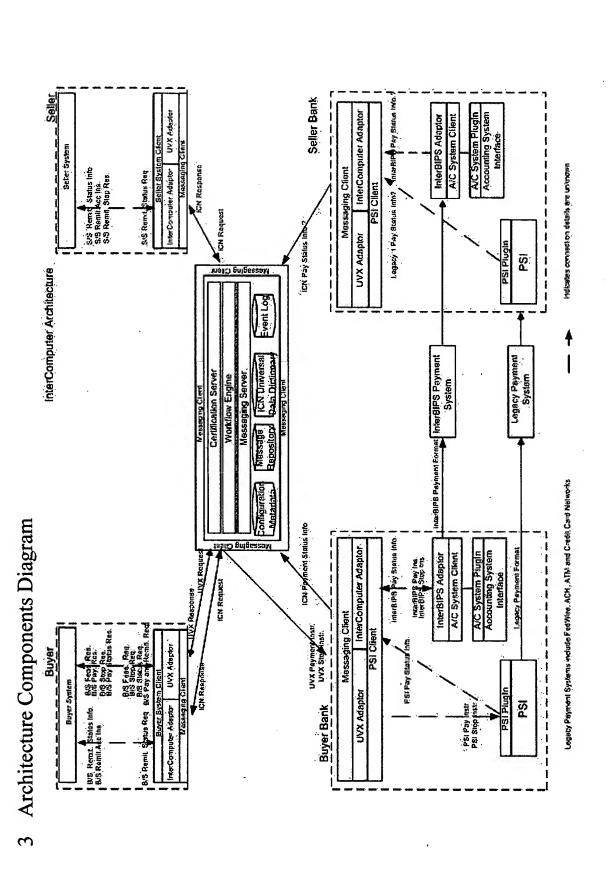
This document will provide the foundation for technical design.

The intended audience will include the Functional, Engineering and QA teams, and potential users of the system.

### 2 Methodology

The functional specifications document is developed as per the UML 1.3 specification

Intercomputer Functional Requirements Specification



# 3.1 Definition of Components Identified

## 3.1.1 UVX Adaptor at Buyer

format. The UVX Adaptor at Buyer receives data in the Buyer System data format and UVX data format. The UVX Adaptor at Buyer The UVX Adaptor at Buyer handles data mapping and transformations between the UVX data format and the Buyer System data delivers data in the Buyer System data format and UVX data format.

## 3.1.2 UVX Adaptor at Seller

format. The UVX Adaptor at Seller receives data in the Seller System data format and UVX data format. The UVX Adaptor at Buyer The UVX Adaptor at Seller handles data mapping and transformations between the UVX data format and the Seller System data delivers data in the Seller System data format and UVX data format.

# 3.1.3 ICN Universal Data Dictionary

Dictionary defines mapping and conversion information between internal and external data formats. Internal data formats are UVX The ICN Universal Data Dictionary defines both the UVX messaging set and the ICN messaging set. The ICN Universal Data and ICN. The different Buyer Systems, Seller Systems and Payment System Interfaces define external data formats.

# 3.1.4 UVX Adaptor at the Buyer Bank

The UVX Adaptor at Buyer Bank handles data mapping and transformations between the UVX data format and the Payment System interface data format. The UVX Adaptor at Buyer Bank delivers Payment and Stop Instructions to the Payment System Interface in he appropriate payment system format.

## 3.1.5 Workflow Engine

The Workflow Engine defines and executes different workflows. The Workflow Engine creates UVX and ICN Business Data objects based on the ICN Data Dictionary definitions. The Workflow Engine handles mapping and conversion between business data objects. The Workflow Engine executes data validation and business validation rules. The Workflow Engine creates Events. 12

## 3.1.6 Messaging Server

The Messaging Server receives and routes messages between the Adaptors and the Workflow Engine. The Messaging Server creates Events.

### 3.1.7 Event Log

The Event Log stores InterComputer Events created by the Workflow Engine and the Messaging Server.

## 3.1.8 Message Repository

The Message Repository stores all messages created by the Platform.

## 3.1.9 Configuration Metadata

The Configuration Metadata stores configuration metadata.

## 3.1.10 Certification Server

The Certification Server handles digital signature verification of Messages.

# 3.1.11 InterBIPS Adaptor at the Buyer Bank

The InterBIPS Adaptor at the Buyer Bank accepts Instructions from the UVX Adaptor. The InterBIPS Adaptor provides Accounting Instructions to the Accounting System Interface at the Buyer Bank. The InterBIPS Adaptor provides Payment Status information to the InterComputer Adaptor. The InterBIPS Adaptor at the Buyer Bank transforms data from the InterBIPS data format to the Accounting System Interface data format.

# 3.1.12 InterBIPS Adaptor at the Seller Bank

The InterBIPS Adaptor at the Seller Bank provides Accounting Instructions to the Accounting System Interface at the Seller Bank. The InterBIPS Adaptor at the Seller Bank transforms data from the InterBIPS data format to the Accounting System Interface data

3.1.13 InterBIPS Payment System

The InterBIPS Payment System receives InterBIPS Instructions. The InterBIPS Payment System routes Instructions to the destination InterBIPS Adaptor.

3.1.14 Buyer System (B/S)

The B/S is the system that the Buyer interacts with. The B/S interacts with the Intercomputer Network.

3.1.15 Seller System (S/S)

The S/S is the system that the Seller interacts with. The S/S interacts with the Intercomputer Network

3.1.16 InterComputer Adaptor at Buyer

The InterComputer Adaptor at Buyer handles data mapping and transformations between the InterComputer data format and the Buyer System data format. The InterComputer Adaptor at Buyer receives data in the Buyer System format and in ICN data format. The InterComputer Adaptor at Buyer delivers data in the Buyer System format and ICN data format.

3.1.17 InterComputer Adaptor at Seller

The InterComputer Adaptor at Seller handles data mapping and transformations between the InterComputer data format and the Seller System data format. The InterComputer Adaptor at Seller delivers data in the appropriate Seller System format and ICN data format. The InterComputer Adaptor at Seller receives data in the appropriate Seller System format and the ICN data format.

3.1.18 InterComputer Adaptor at the Buyer Bank

The InterComputer Adaptor at Buyer Bank handles data mapping and transformations between the InterComputer data format and the Payment System interface data format. The InterComputer Adaptor at the Buyer Bank receives Payment Status Information from the Payment System Interface in the appropriate payment system format 7

## 4 Systems Identified

The following Systems have been identified

- InterComputer Network
- InterComputer Network Platform
  - . ICN Server
- 4. InterBIPS
- Buyer System
  - 6. Seller System
- Messaging System
  - Bank PSI

## 4.1 Definition of Systems

4.1.1 Intercomputer Network

The Intercomputer Network is composed of the ICN Platform and the InterBIPS Platform.

The ICN Platform handles all the UVX and ICN transactions. The ICN Platform is a subsystem of the Intercomputer Network. ICN Platform 4.1.2

4.1.3 ICN Server An ICN Server is a subset of the ICN Platform

4.1.4 InterBIPS
The InterBIPS Platform handles all InterBIPS transactions.

The B/S is the system that the Buyer interacts with. The B/S interacts with the Intercomputer Network. Buyer System (B/S) 4.1.5

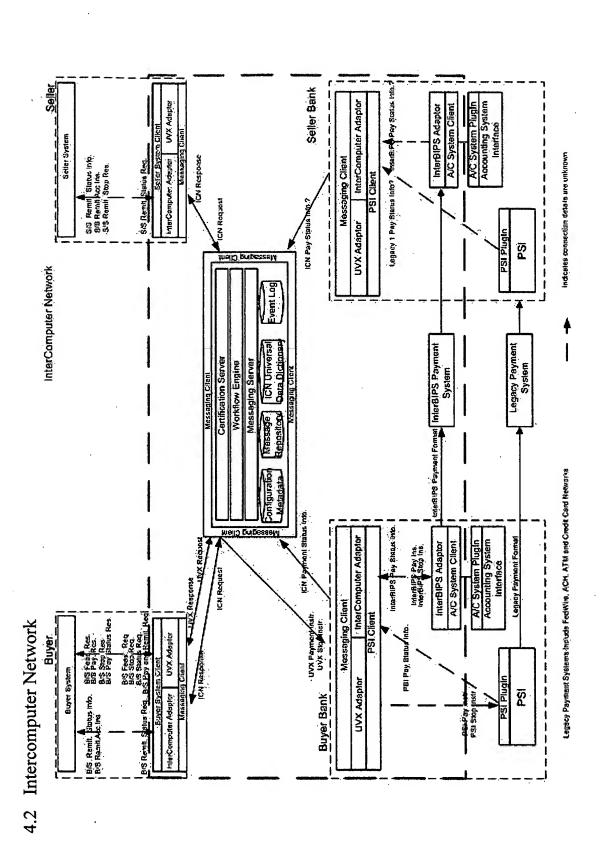
The S/S is the system that the Seller interacts with. The S/S interacts with the Intercomputer Network. Seller System (S/S) 4.1.6

4.1.7 Messaging System
The Messaging System is a subsystem of the ICN Platform

Bank PSI 4.1.8

The components of the Bank Payment System Interface are the Bank Legacy Systems, InterBIPS Adaptor and the Accounting System Interface.

Intercomputer Functional Requirements Specification



The Intercomputer Network has the following components

4.2.1 UVX Adaptor at Buyer

4.2.2 UVX Adaptor at Seller

4.2.3 ICN Universal Data Dictionary

4.2.4 UVX Adaptor at the Buyer Bank

4.2.5 Workflow Engine

4.2.6 Messaging Server

4.2.7 Event Log

4.2.8 Message Repository

4.2.9 Configuration Metadata

4.2.10 Certification Server

4.2.11 InterBIPS Adaptor at the Buyer Bank

4.2.12 InterBIPS Adaptor at the Seller Bank

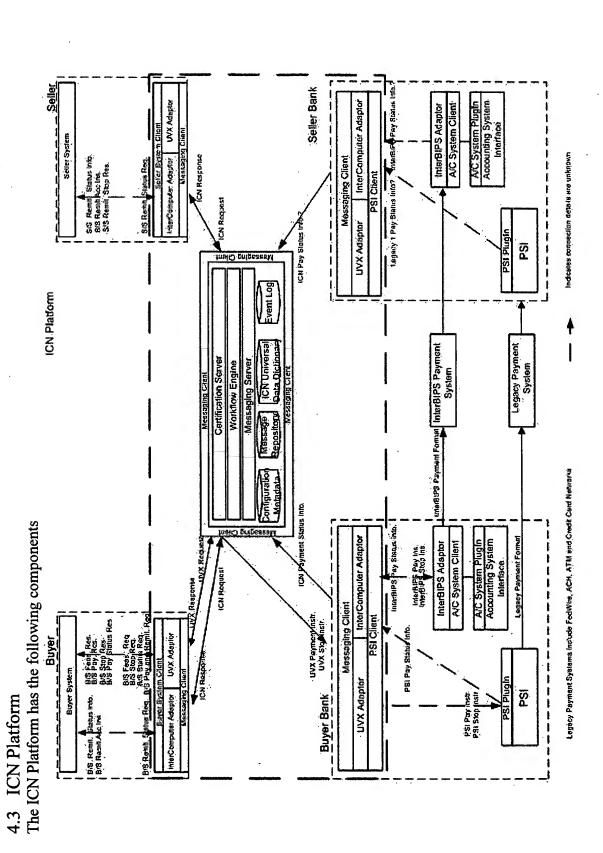
4.2.13 InterBIPS Payment System

4.2.14 InterComputer Adaptor at Buyer

4.2.15 InterComputer Adaptor at Seller

4.2.16 InterComputer Adaptor at the Buyer Bank

Intercomputer Functional Requirements Specification



- 4.3.1 UVX Adaptor at Buyer
- 4.3.2 UVX Adaptor at Seller
- 4.3.3 ICN Universal Data Dictionary
- 4.3.4 UVX Adaptor at the Buyer Bank
- 4.3.5 Workflow Engine
- 4.3.6 Messaging Server
- 4.3.7 Event Log
- 4.3.8 Message Repository
- 4.3.9 Configuration Metadata
- 4.3.10 Certification Server

- 4.3.11 InterComputer Adaptor at Buyer
- 4.3.12 InterComputer Adaptor at Seller
- 4.3.13 InterComputer Adaptor at the Buyer Bank

Intercomputer Functional Requirements Specification

4.4 ICN Server

Legacy 1 Pay Status Infe? Anar BIPP Pay Status Info. Seller Bank A/C System Plugin Accounting System, Interface InterComputer Adaptor UVX ACCUSTOR InterBIPS Adaptor A/C System Client Sefer System SVS Remit Ace Ins. SVS Remit Ace Ins. SVS Remit Stop Res. indicates connection details are university Messaging Client InterComputer Adaptor S. Remu Status Req UVX Adaptor PSI Plugin PS ICH Pay InterComputer Server Legacy Payment System InterBIPS Payment System Workflow Engine Legacy Pajment Systems include FedVille. ACH, ATM and Credit Card Networks ICES Bayment Status Info. in grigesania inter BIPS Pay Status loto. A/C System Plugin Accounting System Interface InterComputer Adaptor InterBIPS Adaptor A/C System Clent InterBIPS Pay Ins. InterBIPS Stop ans. ICN Request Messaging Client Bra Febr. Red. Bra Shark Red. Bra Fay on Henni Red. Buyer Bank UVX Sing Anstr. BAS Feed Res. BAS Pay Ros. BAS Sup Ros. BAS Foy feetus Res. PSI Client PSI, Pay Status Info. UVX Adaptor **UVX Adaptor** PSI PSI Pay Instr PSI Ship Jake interCompute: Adaptor Status Into B.S Remit. Sprius Reg BUS Remit. Status BUS Remit. Acc Ins.

The ICN Server has the following components

4.4.1 Workflow Engine

4.4.2 Messaging Server

4.4.3 Certification Server

Intercomputer Functional Requirements Specification

4.5 InterBIPS

Seller Bank Legacy 1 Pay Status infin? Salar BIP Pay Status Info. InterComputer Adaptor PSI Cilent A/C System Plugla Accounting System. Interface UVX Adesidat InterBIPS Adaptor A/C System Clien Seler System SVS Remet Status Into SVS Remit Acc Ins. SVS Remn, Stop Res. indicates connection details are unimper InterComputer Adaptor Messaging Client Sis Remit Status Req UVX Adaptor ICH Pay Status psi Plugin PS Messaging Client InterBIPS Platform went Log Legacy Payment System ICN Unaversal Data Dictionan InterBIPS Payment Certification Server Workflow Engine Messaging Server ntarBIPS Payment Format Legacy Payment Systems include Feditive. ACH, ATM and Credit Card Nelscorks Configuration Metadata ICAS Payment Status intointarBIPS Pay Status info. A/C System Plugin Accounting System Messaging Chent
InterComputer Adaptor Legacy Paymera Format InterBIPS Adaptor A/C System Citen InterRIPS Pay Ind. Interface ICN Request B/S Fest Res. B/S Pay Ros. B/S Stro Res. B/S Foy Extus Res. UVX Payment instr. UVX Sto Anstr. 8/3 Foise, Red. Bir3 Sharp Red. Br3 Hearit. Spius Red. Br3 Foy on Hearit. Red PSI Cilent PS! Pay Status Info UVX Adepto Massagng Client Buyer System UVX Adaptor PS. PSI Pay Instr PSI Stop Instr **Buyer Bank** InterComputer Adaptor BVS Remt. Status into

The InterBIPS Platform has the following components

- 4.5.1 InterBIPS Adaptor at the Buyer Bank
- 4.5.2 InterBIPS Adaptor at the Seller Bank
- 4.5.3 <u>InterBIPS Payment System</u>

Seller Bank A/C System Plugin Accounting System Interface WX Adaptor InterComputer Adaptor InterBIPS Adaptor A/C System Clien Seller System Lagacy 1 Pay Status into? CharBir SrS Remil Status mo. 8/3 Remil Acc Inc. 8/5 Remil, Stop Res Selet Bysb indicates, connection details are unknown Messaging Client EnterComputer Adapter SiS Routh Status Roq PSI Client UVX Adaptar PSI Plugin ICN Pay State PSI Event Log Buyer System Legacy Payment System InterBIPS Payment Workflow Engine Legacy Payment Systems include FedWire, ACM, ATM and Credit Card Networks Syrrest Stotus Irdo. INDERIPS PAY SIABLE PRO. Messaging Client
InterComputer Adaptor InterBIPS Adaptor Lagacy Payment Forms AVC System Client InterBIPB Pay Ins. Interface ICN Request Bris Fear Res. Bris Pay. Res. Bris Stop Res. Bris Pay Status Res. UVX Paymonylistr. UVX Starnstr. 819 Feas Req Brs. Stop Req. R.P. Statilik Red. Ive Req. Brs. Poy. and Remil. Keq. PSI Client PSI Pay Status Into. UVX Adepter Buyer Buyer System **UVX Adaptor** <u>S</u> 4.6 Buyer System **Buyer Bank** PSI Pay Instr PSI Shop Instr InterCompanies Adaptor B/S. Remil. Status B/S Remit Acc ins. BiS Remn. S

The Buyer System consists of the following components

4.6.1 Buyer System (B/S)

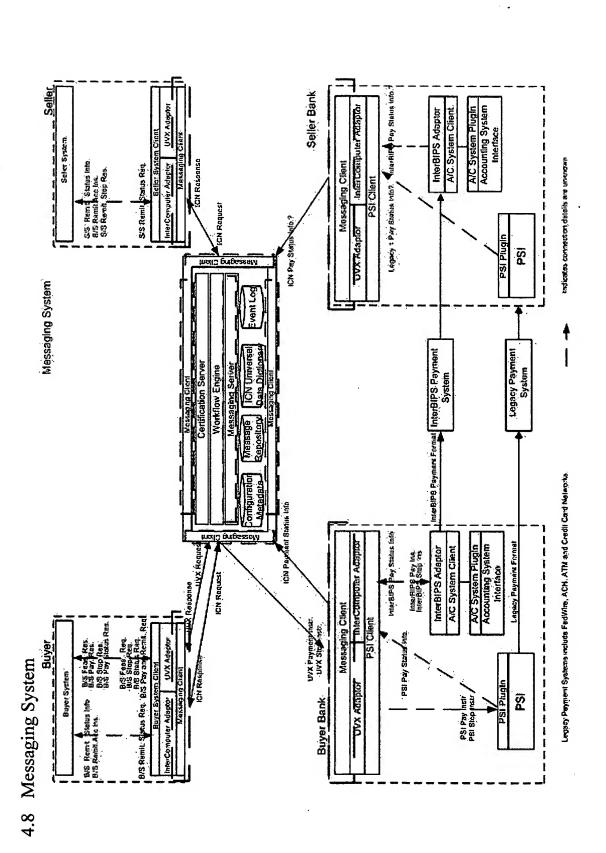
Seller Bank LAGSES & Pay Stonie Into? InterBIFF Pay Status irte. A/C System Plugin Accounting System Interface UVX Adaptor InterComputer Adaptor InterBIPS Adaptor A/C System Client Seler System Indicates connection details are unividing Messaging Client InterComputer Adsiptor S/S Remit Status Req Mossagi KIN Request **UVX Adaptor** ICN Pay Status <u>8</u> Event Log Seller System Legacy Payment System InterBIPS Payment System Workflow Engine Certification Serve Legacy Poyment Systems molade FallMire, ACH; ATM and Credit Card Metworks yment Stafus Into. oun super Status Info A/C System Plugin Accounting System Interface Messaging Client
InterComputer Adaptor
PSI Client: Lagscy Payment Formal InterBIPS Adaptor A/C System Clien InterBIPS Pay Inc. InterBIPS Stop 213 UVX Payment fast. PS1 Pay Status Late. UVX Adupto Buyer System UVX Adaptor <u>2</u> PSI Pay Instr PSI Stop fristr Seller System inter-Computer Adaptor Buyer Bank B'S Remt Status into B'S Remit. Acc ins. KS Remit Sp 4.7

Intercomputer Functional Requirements Specification

The seller System consists of the following components

4.7.1 Seller System

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The UVX Messaging System has the following components

4.8.1 Messaging Server

4.8.2 UVX Adaptor at Buyer

4.8.3 UVX Adaptor at Seller

4.8.4 UVX Adaptor at Buyer Bank

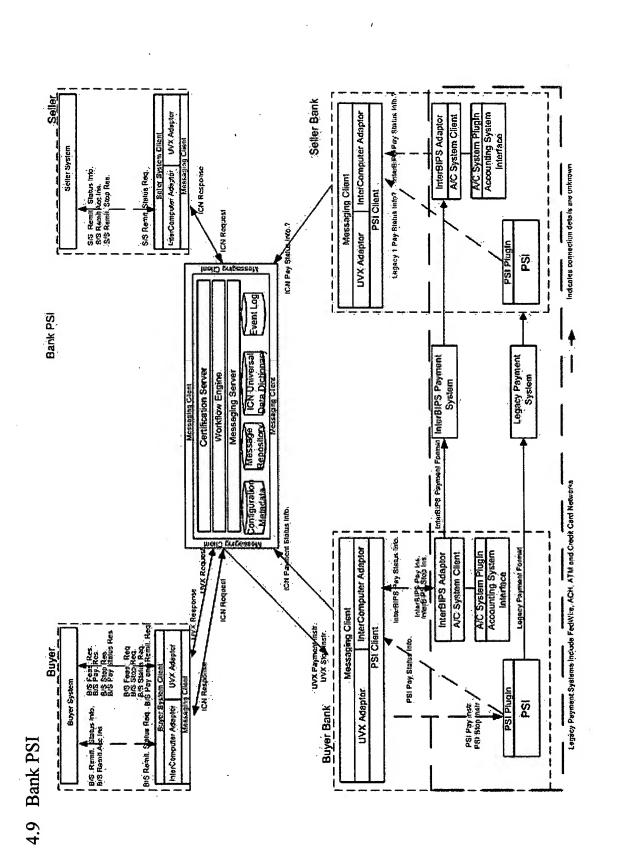
4.8.5 InterComputer Adaptor at Buyer

4.8.6 InterComputer Adaptor at Seller

4.8.7 InterComputer Adaptor at the Buyer Bank

Intercomputer Functional Requirements Specification

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## 5 Business Use Cases

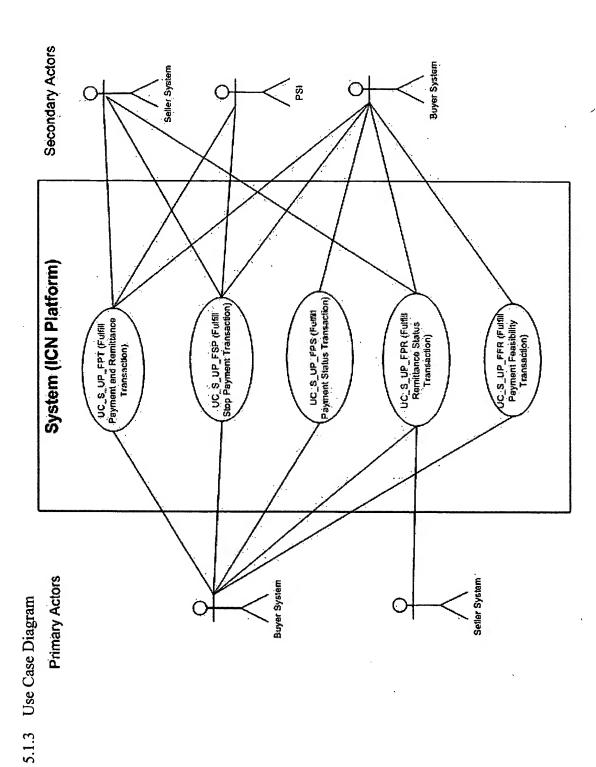
Business Use Cases have been developed for the following Systems

1. ICN Platform

5.1 ICN Platform

5.1.1 System
The system has been identified as the ICN Platform

5.1.2 Components
The components within the ICN Platform are indicated in ICN Platform



5.1.4 Actors
The System interacts with the following Actors

5.1.5 Primary Actors

1. Buyer System (B/S)

2. Seller System (S/S)

5.1.6 Secondary Actors

1. Bank Payment System Interface (PSI)

2. Buyer System (B/S)

3. Seller System (S/S)

## 5.1.7 Use Cases

Use Case ID	NC S	UC S UP FPT
Description	Fulfill	Fulfill Payment and Remittance Transaction
Version	6.93	
Goal	Send 1	Send Payment and Remittance Request to the System. Receive Payment Response.
	Receiv	Receive Remittance Status Information. Receive Remittance Accounting
	Instruction.	ction.
Scope	System	U
Level	Summary	ary
Trigger	#	Trigger Action(s)
	1	Buyer System provides the Request (B/S Payment and Remittance Request)
		to the System
Pre-	#	Pre-condition
conditions	1	Buyer set up the Payment and Remittance Request with the Buyer System
Success Post-	#	Success Post-condition
condition	1	Buyer System receives Remittance Accounting Instruction
	2	Seller System receives Remittance Accounting Instruction
	3	Buyer System receives Payment Response
	4	Buyer System receives Remittance Status Information
	5	Seller System receives Remittance Status Information
Failure Post-	#	Failure Post-condition
condition	1	Buyer System does not receive Remittance Accounting Instruction
	2	Seller System does not receive Remittance Accounting Instruction
	3	Buyer System receives Payment Transfer Response
•	4	Buyer System receives Remittance Status Information
1	-	

Intercomputer Functional Requirements Specification

	5	Seller System receives Remittance Status Information	Remittance Statu	s Information	
Main Success	Step	Use	Pre-Condition System	System	Secondary
Scenario	#	Case		Responsibility	Actor
		<i>CII</i>		•	Responsibili
					ty
	1	UC_PT_WE_WPI	B/S Payment	Execute Payment	
			and	Instruction	
			Remittance	Workflow	
			Request	•	
		UC_PT_WE_WRP	received by	Execute	
			System	Payment Response	
				Workflow	
		UC_PT_WE_WRI		Execute Process	
				Remittance Status	
				Information	
				Workflow	
	2	UC_S_MS_SPI	Payment	Send Payment	
			Instruction	Instruction to PSI	
			created		***
	3	UC_S_MS_SRP	Payment	Send Payment	
			Response	Response to Buyer	
			created	System	
	4	UC_S_MS_SRI	Remittance	Send Remittance	
			Status	Status Information	
			Information	to Buyer System	
_			created	and Seller System	
		The state of the s	7		

Intercomputer Functional Requirements Specification

	2	UC PT WE WFI	Payment	Execute Process
		1	Status	Remittance
			Information	Accounting
			received from	Instruction
			PSI	Workflow
		idin din da Cii		r r
		OC_PI_WE_WKI		Execute Process
				Remittance Status
				Information
				Workflow
	9	UC_S_MS_SFI	Remittance	Send Remittance
			Accounting	Accounting
			Instruction	Instruction and
			created	Remittance Status
				Information to
			Remittance	Buyer System
			Status	
			Information	Send Remittance
			created	Accounting
				Instruction and
				Remittance Status
				Information to
				Seller System
Extensions	Step	Use Case	Condition	Branching Action Description
	#	ID		
-qnS	#	Use Case	Variation	Description
Variations		ID		

Intercomputer Functional Requirements Specification

	1	UC S UP FPT IR	Payment and	Invalid Request data from B/S
•			Remittance	
	·		Request	
			Invalid	
	2	UC_S_UP_FPT_IS	Status Invalid	Invalid Payment Status
				Information from PSI
	3	UC_S_UP_FPT_WI	Process	Failed to execute Payment
			Instruction	Instruction Workflow
			Workflow	
			failed	
	4	UC_S_UP_FPT_WR	Process	Failed to execute Payment
			Response	Response Workflow
			Workflow	
			failed	
	5	UC S UP FPT WS	Process	Failed to execute Process
			Remittance	Remittance Status Information
			Status	Workflow
			Information	1-
			failed	
	9	UC S UP FPT WF	Process	Failed to execute Process
			Remittance	Remittance Accounting Instruction
	_		Accounting	Workflow
			Instruction	
			workflow	
			failed	
Priority	High			
Primary	Buyer	Buyer System		
Actor				
Secondary	Buyer	Buyer System		
Actor	Payme	Payment System Interface		

Intercomputer Functional Requirements Specification

	Sella	Seller System	
Performance	A I	messages should b	All messages should have guaranteed delivery
Target			
Frequency	Asa	and when triggered	As and when triggered by the Buyer System
Super-	None	e	
ordinate Use			
Case(s)			
Sub-ordinate Use Cases (s)			
Channel(s) to	Prin	Primary Actor	Channel
Primary Actor	Buy	Buyer System	Not yet determined.
Channel(s) to	Seco	Secondary Actor	Channel,
Secondary	Buy	Buyer System	Not yet determined.
Actor(s)	Payr Inter	Payment System Interface	Not yet determined.
•	Selle	Seller System	Not yet determined.
Open Issues			
Schedule	Sche	Scheduled for DEMO	
Assumptions	#	Assumption	
	1	Payment Status	Payment Status Information is sent from PSI
	2	The ICN Transa	The ICN Transactions can be matched with the Payment System Transactions
	3	The ICN Transa	The ICN Transactions can be matched with the Buyer System and the Seller
		System Transactions	10ns
5 1	4	Payment Status Info	Payment Status Information will indicate success or failure of a Payment System Transaction
•			

Intercomputer Functional Requirements Specification More information

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Intercomputer Functional Requirements Specification

Use Case ID	NC S	UC S UP FSP	,		**************************************
Description	Fulfill	Fulfill Stop Payment Transaction	on		
Version	0.93				
Goal	Send	Send Payment Stop Request to the System to stop payment transaction. Receive	the System to sto	p payment transact	ion. Receive
	Payme	Payment Stop Response. Receive Remittance Stop Response.	ve Remittance St.	op Response.	
Scope	System	n			
Level	Summary	nary			
Trigger	#	Trigger Action(s)			
	1	Buyer System provides the Payment Stop Request (B/S Payment Stop	the Payment Sto	v Request (B/S Pay	ment Stop
		Request) to the System			
Pre-	#	Pre-condition			
conditions	1	Buyer set up the Payment Stop Request with the Buyer System	nt Stop Request	with the Buyer Syst	em
Success Post-	#	Success Post-condition			
condition	1	Payment Transaction rolled back	lled back		
	2	Buyer System received Payment Stop Response	Payment Stop Re	sponse	
	3	Seller System received Remittance Stop Response	Remittance Stop	Response	
Failure Post-	#	Failure Post-condition			
condition	1	Payment Transaction not rolled back	ot rolled back		
	2	Buyer System received Payment Stop Response	Payment Stop Re	sponse	
	3	Seller System received Remittance Stop Response	Remittance Stop	Response	
Main Success	Step	Use Case ID	Pre-Condition System	System	Secondary
Scenario	#			Responsibility	Actor Responsibility
					Nesponsionny

Intercomputer Functional Requirements Specification

top Execute Stop .  Payment om Workflow	top Send Payment Stop Instruction to PSI	top Execute Payment Stop Response workflow Execute	Remittance Stop Response workflow	Send Payment Stop Response to the Buyer System	Send Remittance onse Stop Response to the Seller System	Branching Action Description		Description	nt Invalid Request data from B/S
Request received from the Buyer System	Payment Stop Instruction created	Payment Stop Instruction sent to PSI		Payment Stop Response created	Remittance Stop Response created	Condition		Variation	B/S Payment Stop Request
UC_PT_WE_WSP	UC_S_MS_SSP	UC_PT_WE_WSR		UC_S_MS_SSR		Use Case ID		Use Case ID	UC_S_UP_FSP_IR
_	7	m		4		Step #		#	1
						Extensions	8	Sub- Variations	

Intercomputer Functional Requirements Specification

	7	UC_S_UP_FSP_WS	S Stop Payment Workflow	Failed to execute Stop Payment Workflow
	3	UC_S_UP_FSP_WR	_	Failed to execute Payment Stop
			Response workflow	Response workflow
	4	UC_S_UP_FSP_WE		Failed to execute Remittance Stop
			Stop Response workflow	Response workflow
Priority	High			
Primary	Buyer	Buyer System		
Actor	,			
Secondary	Buyer	Buyer System		
Actor	Seller	Seller System		
	Payme	Payment System Interface		
Performance	All me	All messages should have guaranteed delivery	naranteed delivery	
Target				
Frequency	As and	As and when triggered by the Buyer System	he Buyer System	
Super-	None			
ordinate Use		54		
Case(s)		•		
Sub-ordinate				
Use Cases (s)				
Channel(s) to	Primar	Primary Actor	Channel	
Primary Actor	Buyer	Buyer System	Not yet determined.	
Channel(s) to	Second	Secondary Actor	Channel	
Secondary	Buyer	Buyer System	Not yet determined.	
Actor(s)	Seller	Seller System	Not yet determined	

Intercomputer Functional Requirements Specification

	Payr Inter	Payment System Interface	Not yet determined
Open Issues	The the I	Payment System Interf payment that has to be s	The Payment System Interface needs to receive the payment transaction identifier for the payment that has to be stopped. How will that be achieved?
Schedule	Sche	Scheduled for DEMO	
Assumptions	#	Assumption	
	_	Payment Stop Requesi	Payment Stop Request will be defined in UVX
	7	Payment Stop Respon.	Payment Stop Response will be defined in UVX
	n	Payment Stop Instruct	Payment Stop Instruction will be defined in UVX
	4	Remittance Stop Resp.	Remittance Stop Response will be defined by Intercomputer
	2	The PSI accepts Payment Stop Instructions	ent Stop Instructions
More			
information			

Intercomputer Functional Requirements Specification

		UC S UP FPS			
Description	Fulfill	Fulfill Payment Status Transaction	action		
Version	0.92				
Goal	Send Pa Request.	Send Payment Status Request to the System. Receive Response to Payment Status Request.	t to the System. Re	ceive Response to Pa	xyment Status
Scope	System	и			
Level	Summary	lary			
Trigger	#	Trigger Action(s)			
		Buyer System provides the Payment Status Request (B/S Payment Status	es the Payment Sta	us Request (B/S Pa)	ment Status
	٠	Request) to the System.	n.		
Pre-	#	Pre-condition			
conditions	_	Buyer set up Payment Status Request (B/S Payment Status Request) to the	t Status Request (B.	'S Payment Status R	equest) to the
		Buyer System			
Success Post-	#	Success Post-condition	u		
condition		Buyer System received Response to Payment Status Request	ed Response to Pay	ment Status Request	
Failure Post-	#	Failure Post-condition	ı		
condition	-	Buyer System received Response to Payment Status Request	d Response to Pay	ment Status Request	
Main Success	Step	Use Case ID	Pre-Condition	System	Secondary Actor
	' #			Responsibility	Responsibility
<b>1</b> ,	1	UC_PT_WE_WST	B/S Payment	Execute Payment	
			Status Request	Status Workflow	
			received from		
			the System		
	2	UC_PT_WE_WTR	Payment Status	Execute Process	
			workflow	Response to	
			executed	Payment Status	
				Request workflow	

Intercomputer Functional Requirements Specification

	3	UC_S_MS_STR	Response to Status Request	Send Response to Payment Status
			created	Request to B/S
Extensions	Step #	Use Case ID	Condition	Branching Action Description
Sub- Variations	#	Use Case	Variation	Description
		UC_S_UP_FPS_IR	Status Request Invalid	Invalid Request data from B/S
	2	UC_S_UP_FPS_W T	Payment Status Workflow failed	Failed to execute Payment Status Workflow
	3	UC_S_UP_FPS_W	Response to	Failed to execute Response to
		~	Payment Status	Payment Status Request workflow
			<i>Request</i> workflow	
Priority	High			
Primary	Buyer	Buyer System		
Actor				
Secondary Actor	Buyer	Buyer System		
Performance	All me	All messages should have guaranteed delivery	aranteed delivery	
Target				
Frequency	As and	As and when triggered by the Buyer System	Buyer System	
Super-	None			
ordinate Use		•		
Case(s)				
Sub-ordinate				
Use Cases (s)				

Intercomputer Functional Requirements Specification

Actor     Buyer System     Not yet determined.       Channel(s) to Secondary Actor     Channel       Secondary     Buyer System     Not yet determined.       Actor(s)     Actor(s)     Not yet determined.       Actor(s)     Scheduled for DEMO     Assumption       Assumptions     # Assumption     Assumption       1     The System receives the payment status information from the PSI asynchronously       2     The System does not access the PSI directly in executing this transaction information	Channel(s) to	Prin	Primary Actor	Channel
Scheck Sc	Actor	Buy	er System	Not yet determined.
Buyer Schec	Channel(s) to	Seco	ondary Actor	Channel
Schec	Secondary	Buy	er System	Not yet determined.
Issues ule Schec aptions #	Actor(s)			
nptions # 1	Open Issues			
aptions #	Schedule	Sche	duled for DEMO	
2 2 2 nation	Assumptions	#	Assumption	
2 2 nation		1	The System receive	ss the payment status information from the PSI
2 2 1 antion	•		asynchronously	
More		2	The System does no	ot access the PSI directly in executing this transaction
More information				
More information				
More information				
information	More			
	information			

Intercomputer Functional Requirements Specification

ion	Fulfill Remittance Status Transaction			
		nsaction		
	Send Remittance Status Request to the System. Receive Remittance Status	uest to the System. I	Receive Remittance	Status
	Information.			
	tem			
	Summary			
Ingger #	Trigger Action(s)			
1	Initiator System (Buyer or Seller System) provides the Remittance Status	rer or Seller System	provides the Remin	tance Status
	Total Common State of			
Fre-	Pre-condition			
conditions 1	Initiator (Buyer or Seller) set up Remittance Status Request to the Initiator	ller) set up Remitta	nce Status Request t	o the Initiator
	System			
Success Post- #	Success Post-condition	no		
condition 1	Initiator receives Remittance Status Information	iittance Status Info	mation	
Failure Post- #	Failure Post-condition	u		
condition 1	Initiator receives Remittance Status Information	iittance Status Info	mation	
Main Success Step	Use Case ID	Pre-Condition	System	Secondary Actor
Scenario #			Responsibility	Responsibility
-	UC_PT_WE_WER	Remittance	Execute	
		Status Request	Remittance Status	
		received from	Workflow	
		the Initiator		
		System		
2	UC_PT_WE_WES	Remittance	Execute Process	
		Status workflow	Remittance Status	
		executed	Information	
			workflow	

Intercomputer Functional Requirements Specification

	3	UC_S_MS_SES	Remittance Status	Send Remittance Status
			<i>Information</i> created	Initiator System
Extensions	Step #	Use Case ID	Condition	Branching Action Description
Sub- Variations	#	Use Case ID	Variation	Description
	-	UC_S_UP_FPR_IR	Status Request Invalid	Invalid Request data from Initiator
*	2	UC_S_UP_FPR_W T	Remittance Status Workflow failed	Failed to execute Remittance Status Workflow
	3	UC_S_UP_FPR_W	Remittance	Failed to execute Remittance Status
		R	Status	Information workflow
			Information	
	11:11		WOINTIOW	
Pronty	High			
Primary Age:	Buyer	Buyer System or Seller System	<b>u</b>	
ACIOI	¢	2-11-8-1-1		
Secondary	Buyer	Buyer System or Seller System	<b>u</b>	
ACIOI				
Performance Target	All me	All messages should have guaranteed delivery	aranteed delivery	
Frequency	As and	As and when triggered by the Buyer System or Seller System	Buyer System or	Seller System
Super-	None	3.		
ordinate Use				
Case(s)				

Intercomputer Functional Requirements Specification

Sub-ordinate		
Use Cases (s)		A STATE OF THE STA
Channel(s) to	Primary Actor	Channel
Actor	Initiator System	Not yet determined.
Channel(s) to	Channel(s) to Secondary Actor	Channel
Secondary	Initiator System	Not yet determined.
Actor(s)		
Open Issues		
Schedule	Scheduled for DEMO	
Assumptions	# Assumption	
More		
information		

Intercomputer Functional Requirements Specification

Use Case ID	NC S	UC S UP FFR			
Description	Fulfill	Fulfill Payment Feasibility Transaction	ransaction		
Status	VALID	D			
Goal	Send 1	Send Feasibility Request to the System. Receive Feasibility Response.	he System. Receive	: Feasibility Respons	se.
Scope	System	u			
Level	Prima	Primary Task			
Trigger	#	Trigger Action(s)			
	1	Buyer System provides the Feasibility Request to the System	es the Feasibility R	equest to the System	
Pre-	#	Pre-condition			
conditions	1	Buyer sets up Feasibility Request with the Buyer System	ility Request with tl	he Buyer System	
Success Post-	#	Success Post-condition	uc		
condition	1	Buyer receives Feasibility Response	bility Response		
Failure Post-	#	Failure Post-condition	u		
condition	1	Buyer receives Feasibility Response	bility Response		
Main Success	Step	Use Case ID	Pre-Condition	System	Secondary
Scenario	#		,	Responsibility	Actor
					Responsibility
	_	UC_PT_WE_WFE	B/S Feasibility	Execute	
			Request	Feasibility	
			received from the System	workflow	
	2	UC_PT_WE_WFR	Feasibility	Execute Process	
			workflow	Response to	
			executed	Feasibility	
				Request workflow	

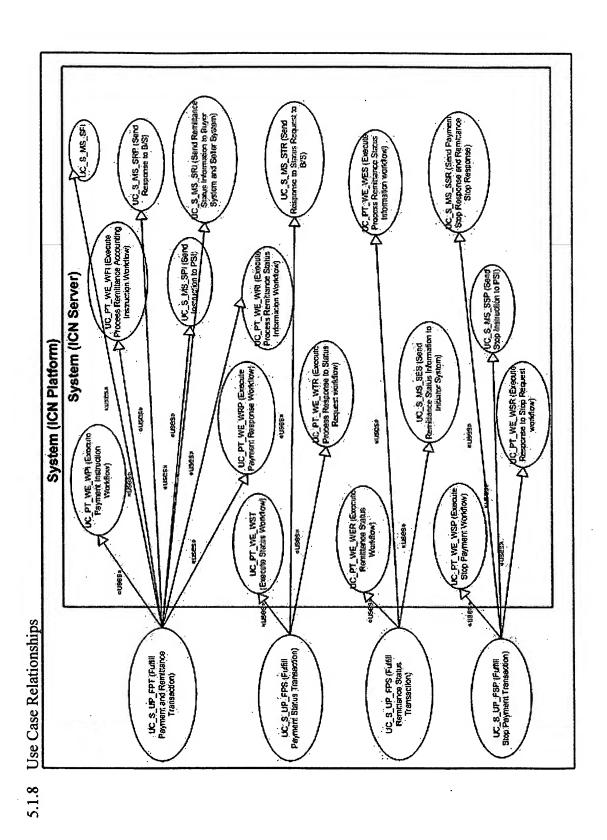
Intercomputer Functional Requirements Specification

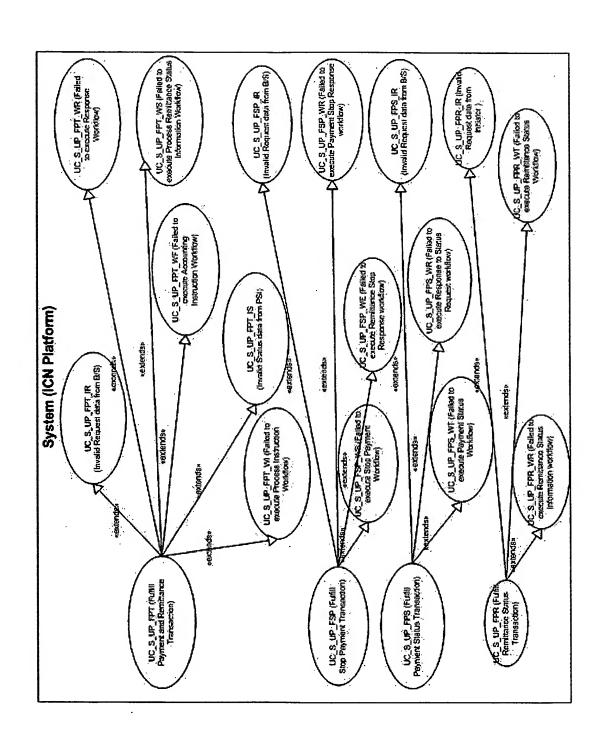
417	···	UC_S_MS_SFR	Response to Feasibility	Send <i>Kesponse to</i> Feasibility
			Request created	Request to B/S
Extensions	Step #	Use Case ID	Condition	Branching Action Description
Sub- Variations	#	Use Case ID	Variation	Description
	_	UC_S_UP_FFR_IR	Feasibility Request	Invalid Request data from B/S
	7	UC_S_UP_FFR_W F	Payment Feasibility Workflow	Failed to execute Payment Feasibility workflow
	8	UC_S_UP_FFR_W R	Response to Feasibility	Failed to execute Response to Feasibility Request workflow
			<i>Request</i> workflow	
Priority	High			
Primary	Buyer	Buyer System		
Actor				
Secondary	Buyer	Buyer System		•
Actor				
Performance	All me	All messages should have guaranteed delivery	aranteed delivery	
Target				
Frequency	As and	As and when triggered by the Buyer System	Buyer System	
Super-	None			
ordinate Use				
Case(s)				
Sub-ordinate	,			

Intercomputer Functional Requirements Specification

Use Cases (s)			
Channel(s) to Primary Actor	Prim	ary Actor	Channel
Primary Actor	Buye	Buyer System	Not yet determined.
Channel(s) to Secondary Actor	Seco	ndary Actor	Channel
Secondary	Buye	Buyer System	Not yet determined.
Actor(s)			
Open Issues			
Schedule	Sche	Scheduled for DEMO	
Assumptions	#	Assumption	
1			
More			
information			

Intercomputer Functional Requirements Specification





## 6 Business Data Objects

The following business data objects have been identified through the use-cases

- 6.1 Payment Transfer Process
- 6.1.1 B/S Payment and Remittance Request
- 6.1.2 UVX Payment and Remittance Request
- 6.1.3 UVX Payment Response
- 6.1.4 B/S Payment Response
- 6.1.5 UVX Payment Instruction
- 6.1.6 PSI Payment Instruction
- 6.1.7 PSI Payment Status Information
- 6.1.8 ICN Payment Status Information
- 6.1.9 ICN Remittance Accounting Instruction6.1.10 S/S Remittance Accounting Instruction
- 6.1.11 B/S Remittance Accounting Instruction
- 6.1.12 ICN Remittance Status Information

6.1.13 S/S Remittance Status Information

6.1.14 B/S Remittance Status Information

- 6.2 Payment Feasibility Process
- 6.2.1 B/S Payment Feasibility Request
- 6.2.2 UVX Payment Feasibility Request
- 6.2.3 UVX Payment Feasibility Response
- 6.2.4 B/S Payment Feasibility Response

- 6.3 Payment Status Process
- 6.3.1 B/S Payment Status Request
- 6.3.2 UVX Payment Status Request
- 6.3.3 UVX Payment Status Response
- 6.3.4 B/S Payment Status Response

6.4 Payment Stop Process

6.4.1 B/S Payment Stop Request

6.4.2 UVX Payment Stop Request

6.4.3 UVX Payment Stop Instruction

6.4.4 PSI Payment Stop Instruction

6.4.5 UVX Payment Stop Response

6.4.6 B/S Payment Stop Response

6.4.7 ICN Remittance Stop Response

6.4.8 S/S Remittance Stop Response

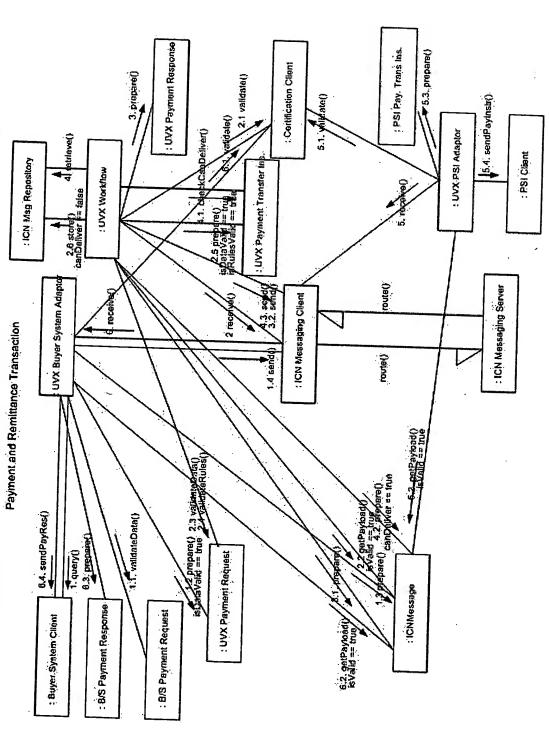
- 6.5 Remittance Status Process
- 6.5.1 B/S Remittance Status Request
- 6.5.2 S/S Remittance Status Request
- 6.5.3 ICN Remittance Status Request
- 6.5.4 ICN Remittance Status Information
- 6.5.5 B/S Remittance Status Information
- 6.5.6 S/S Remittance Status Information

## 7 Interaction Diagrams

Interaction diagrams consist of Collaboration Diagrams and Sequence Diagrams.

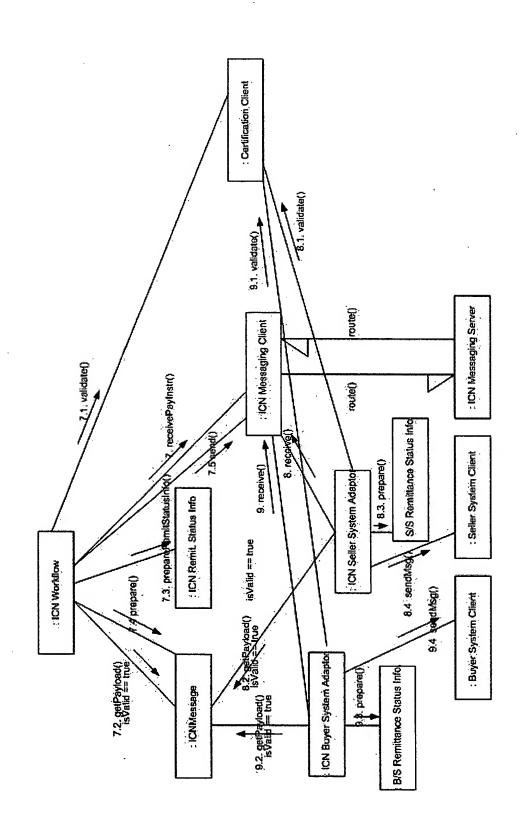
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7.1 Collaboration Diagrams



Intercomputer Functional Requirements Specification

Payment and Remittance Transaction



: PSI Client : PSI Payment Status Info. 10.getList() 10.1 \* [for all objects] 10.2.1 \* [for all ICN Message]. : ICN Messaging Client : ICN Messaging Server : ICN PSI Adaptor Payment and Remittance Transaction route() 10.2 \* [for all UVX\*\* ay Glatus Info] prepare() : ICN Message 10,1,1,1 associate() 10.1.1 prepare() : ICN Payment Status Info.

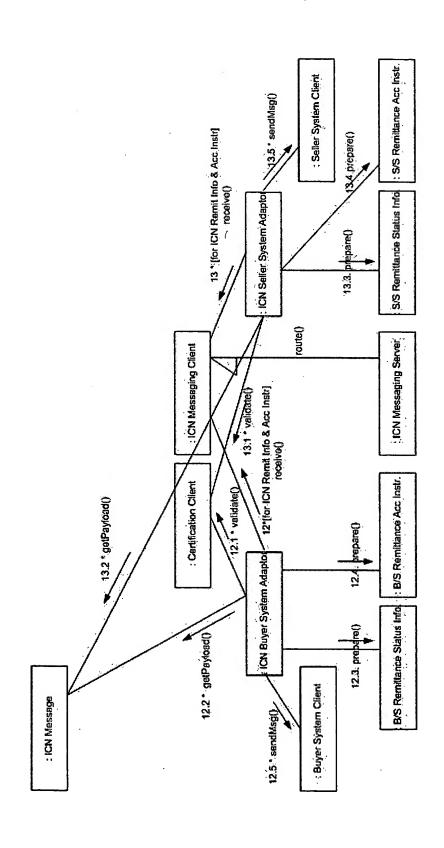
Intercomputer Functional Requirements Specification

Payment and Remittance Transaction

iCN Remit Acc Instr. : ICN Workflow 11.6 pe route() : ICN Messaging Client ICN Messaging Server ()etnou 11.8 \* [for ICN Remit Info & ICN Acc Instr], prepare() Certification Client 11.3 isPayComplete() 11.4 isPaySuccess() 11.5 getPayDetails() 11.2 getPayload() işVa(id ≕= frue 11.7 preparet : ICN Payment Status Info. : ICN Remit Status Info : ICN Message

Intercomputer Functional Requirements Specification

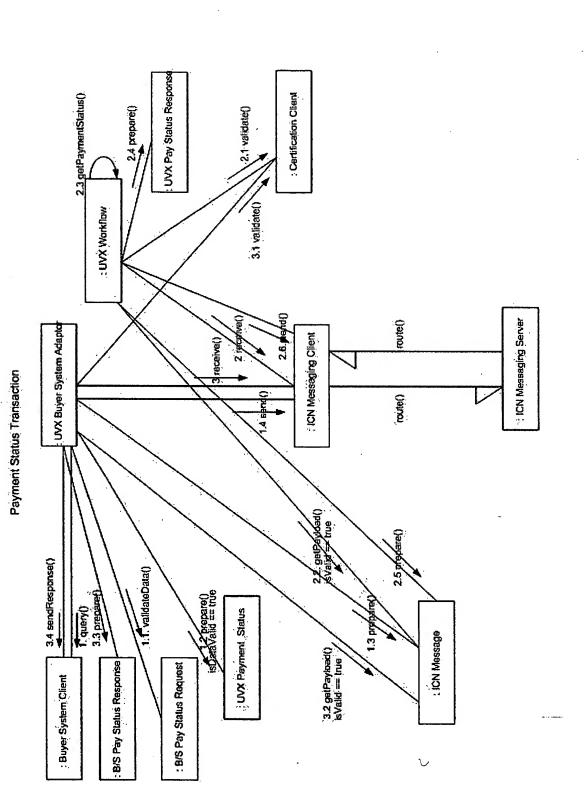
Payment and Remittance Transaction



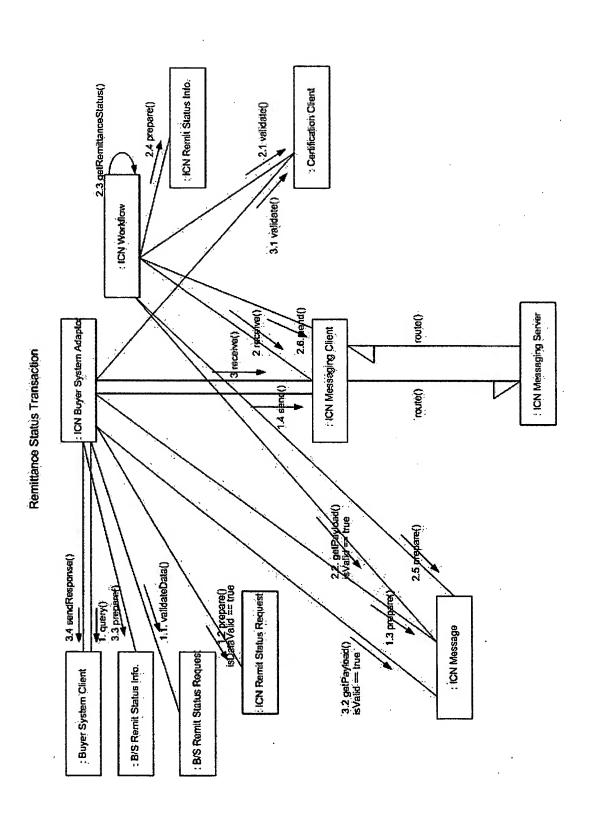
UVX Feasibility Response 2.3 execute Feasibility Rules() : Certification Client 2.4 prepare() 2.1 validate() 3.1 validate() : UVX Workflow route() : ICN Messaging Server UVX Buyer System Adapto : ICN Messaging Client 3 raceive() Payment Feasibility Transaction route() 3.4 sendResponse() 1. f. validateData() 1. queny() . UVX Feasibility Request 1.3 prog : ICN Message 3.2 getPayload() isValid — Inse : B/S Feasibility Resportse : B/S Feasibility Request : Buyer System Client

Intercomputer Functional Requirements Specification

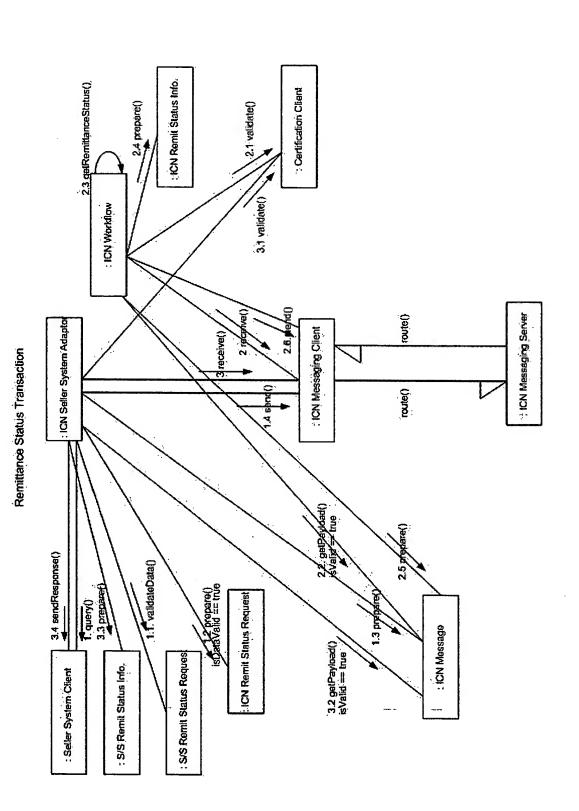
Intercomputer Functional Requirements Specification



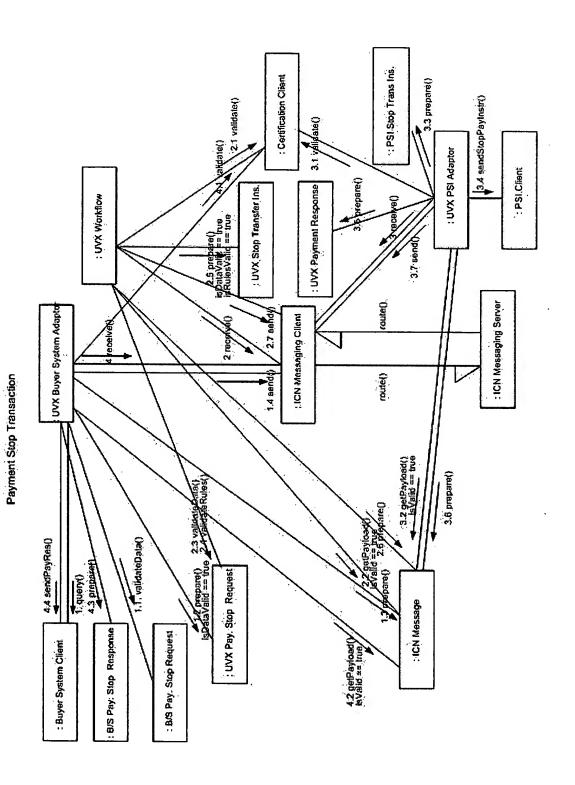
Intercomputer Functional Requirements Specification



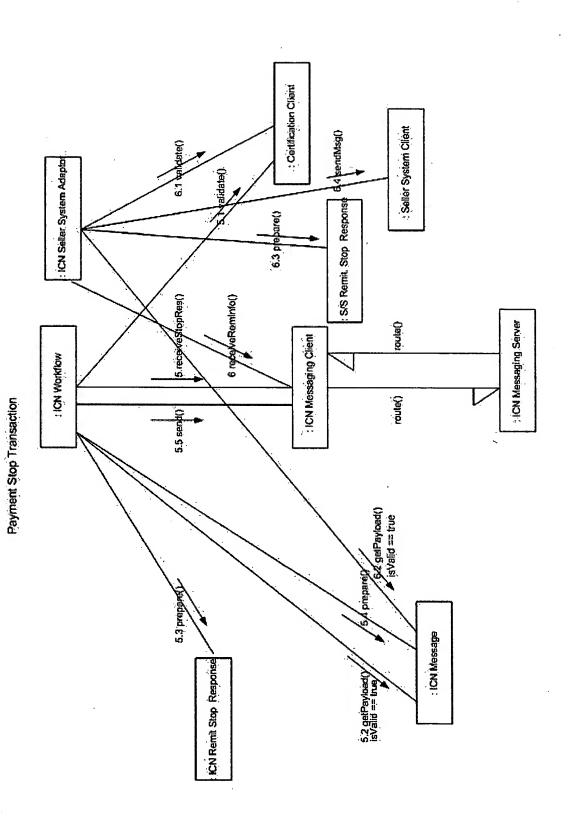
Intercomputer Functional Requirements Specification



Intercomputer Functional Requirements Specification



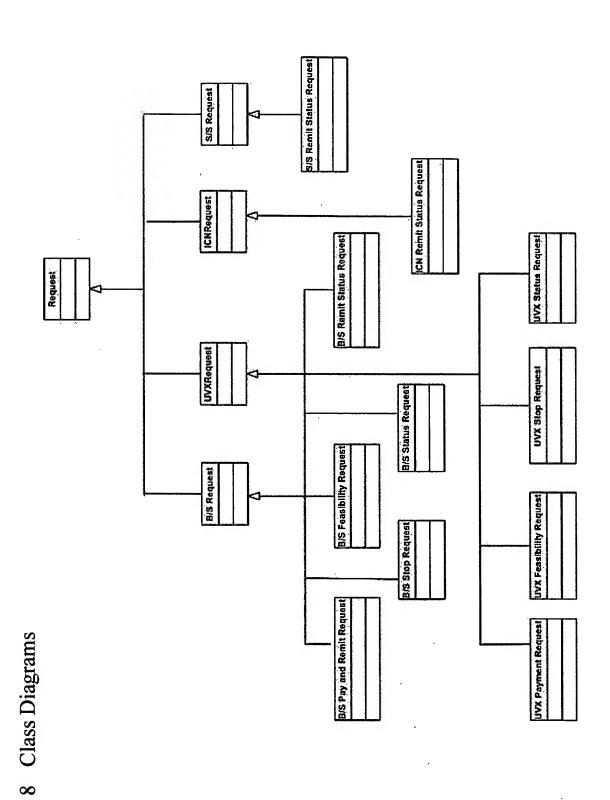
Intercomputer Functional Requirements Specification

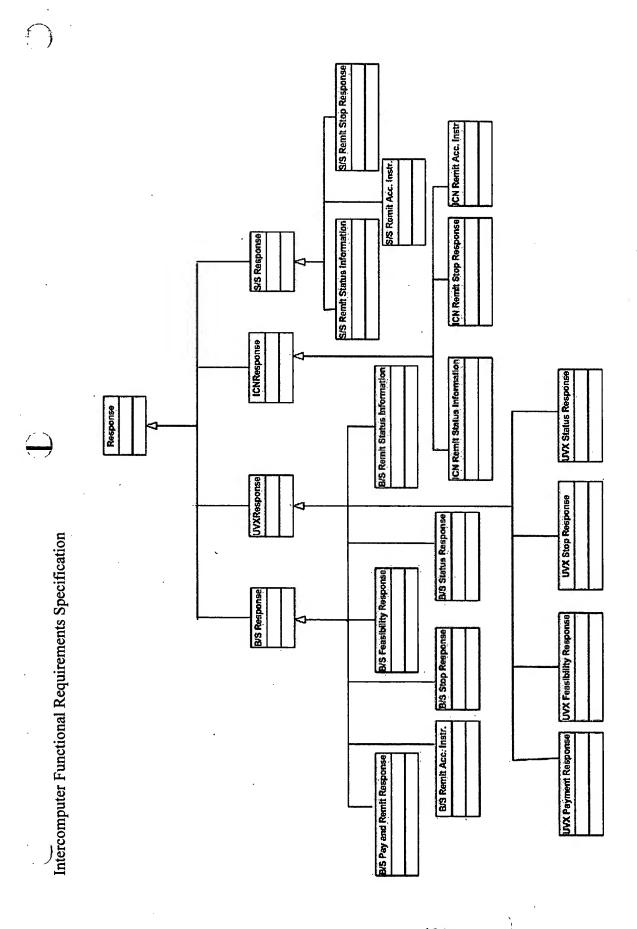


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Intercomputer Functional Requirements Specification

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9 State and Activity Diagrams

## 10 System Requirements

The "Ideal" column indicates the System Requirements for an ideal system. The "Prototype" column indicates the System Requirements for the Demo.

System Requirement	Description.	Prototype	Ideal
Auditing	Audit trail	Rudimentary	Extensive
	Rudimentary-		
	<ul> <li>Messages will be stored in</li> </ul>		
	the Message repository		
	<ul> <li>A Message auditing file will</li> </ul>		
	maintain ID's of messages		
	sent, records the sender's		
	and recipients' id's, date and	in ha	
	time as raw data		
	Extensive		
	<ul> <li>Configurable auditing policy</li> </ul>		
	Web-based administration		
	and reporting		
	<ul> <li>Messages will be stored in</li> </ul>		
	the Message repository		
	A Message auditing file will		
	maintain ID's of messages		
	sent, records the sender's		
	and recipients' id's, date and		
	time, Message delivery		
	confirmation information		
	<ul> <li>Transaction audit will</li> </ul>		
	maintain ID's of system		
	transactions, transaction		
	success or failure, date and		

Intercomputer Functional Requirements Specification

	C weigh		
	<ul> <li>Message Queue auditing</li> </ul>		
	when the queue is created,		
	accessed or deleted,		
	changing queue properties		
Digital Signature	Digital Signature Verification	Yes	Yes
Verification			
User Interface	User Interface to the	No	Yes
	Intercomputer Network		
Workflow	Workflow Engine	Yes Ye	Yes
Error Management	Error Handling, Error Logging	Basic Ey	Extensive
	Basic-Error detection and		
	exception handling in code,	te Air	
	exception hierarchy, simple		
	logging of errors		
	Extensive -Error propagation,		
	Error recovery, Error		
	monitoring, reporting		
Event Logging	Logging of predefined events	Yes	Yes
Messaging		Yes	Yes
Persistence		Yes	Yes
Guaranteed Delivery		Yes	Yes
Scheduling	To be determined		
Transaction Management		Yes	Yes
Reliability	Accuracy, Availability,	No Ye	Yes
	Recoverability		
Response time	To be determined		
Concurrent Users	Minimum number of concurrent	7 10	100
	users to be handled		
Throughput	To be determined. Expected to		
	be around 42 million payments		
	per day in the ideal system		

Intercomputer Functional Requirements Specification

Compatibility Compatibility with legacy systems Scalability Standards compliance Third-party components Platform Support Dottype Platform Support Dottype Compatibility with legacy systems Systems Lucious failover UVX, BIPS, InterBIPS JMS, Business Protocols, J2F Prototype Prototype Coll usage	th legacy er rBIPS otocols, J2EE	No No Yes	Yes Yes Yes
ipliance imponents	th legacy er rBIPS otocols, J2EE	Yes No Yes	Yes Yes Yes
unce	贸	No Yes	Yes
nnce onents	99	No Yes	Yes
nnce onents	E	Yes	Yes
onents	贸	Vec	
onents		Vac	
	_	1.03	
A THE COLUMN			
		Yes	Yes
1	6)	5	
External Interfaces Certification Serve	Certification Server, B/S, S/S,	Yes	Yes
PSI			
Interface formats   To be determined	rmined		
Localization		en US	
Reporting To be determined	rmined	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

### 11 Assumptions

Assimption of the Case III	Use Case ID
	UC_S_UP_FPT
The ICN Transactions can be matched with the Payment System	UC_S_UP_FPT
Transactions	
The ICN Transactions can be matched with the Buyer System and	UC_S_UP_FPT
the Seller System Transactions	
Payment Status Information will indicate success or failure of a	UC_S_UP_FPT
Payment System Transaction	
Payment Stop Request will be defined in UVX	UC S UP FSP
Payment Stop Response will be defined in UVX	UC S UP FSP
Payment Stop Instruction will be defined in UVX	UC_S_UP_FSP
Remittance Stop Response will be defined by Intercomputer	UC_S_UP_FSP
The PSI accepts Payment Stop Instructions	UC_S_UP_FSP
The System receives the payment status information from the PSI	UC_S_UP_FPS
asynchronously	
The System does not access the PSI directly in executing this	UC_S_UP_FPS
transaction	

#### 12 Terminology

Primary Actor - an actor having a goal requiring an assistance of the system. The system performs a goal for the primary actor

Secondary Actor + an actor from which the system needs assistance to satisfy its goals. The system performs a goal through the secondary actor. The secondary actor corresponds with the External Entity

External Entity – An entity through which the system does something. This term has been replaced with Secondary Actor.

Success - The term Success as defined in this document indicates that the use-case goal has been achieved and the process has

Failure - The term Failure as defined in this document indicates that the use-case goal has not been achieved and the process has terminated

Complete - The term Complete as defined in this document indicates that the process has terminated

Non-InterBIPS payment systems - Existing payment systems such as ACH, FedWire, ATM networks, Credit Card etc that are not based on the BIPS specification.

Buyer - the entity that interacts with the B/S. The Buyer entity does not interact with the System.

Seller - - the entity that interacts with the S/S. The Seller entity does not interact with the System.

Buyer's Approver - the entity that will approve Buyer payment requests. Every Buyer will have a designated Buyer's Approver.

Date - Date as mentioned in this document indicates DATETIME

System Date - The current DATETIME

Payment Date – The date on which the payment is to be made as per the BIPS Payment Request.

Processing Date - The date on which the BIPS Payment Request is processed by the Intercomputer Network

Transmission Date - The date on which the payment request is transmitted from the Intercomputer Network to the Payment System Interface